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APPLICATION NO.	FILING DATE	, FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,274	10/26/2005	Jun Hirano	L8638.05103	9812
52989 7590 07/27/2007 STEVENS, DAVIS, MILLER & MOSHER, LLP 1615 L. STREET N.W. SUITE 850 WASHINGTON, DC 20036			EXAMINER	
			TRAN, PABLO N	
			ART UNIT	PAPER NUMBER
			2618	
•			MAIL DATE	DELIVERY MODE
			07/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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1	Application No.	Applicant(s)			
	10/534,274	HIRANO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Pablo N. Tran	2618			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 11 Ju	ı <u>ly 2007</u> .				
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Claims					
4) Claim(s) <u>1-79</u> is/are pending in the application. 4a) Of the above claim(s) <u>1-65 and 67-79</u> is/are 5) Claim(s) is/are allowed. 6) Claim(s) <u>65-66</u> is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	withdrawn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction in the original sheet are considered to by the Examiner.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date OF TO STATE OF TO S	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

DETAILED ACTION

Election/Restrictions

- 1. Claims 67-79 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected Group II-IX there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 07/11/07.
- 2. Applicant's election with traverse of Group I in the reply filed on 07/11/07 is acknowledged. The traversal is on the ground(s) that no unduly extensive or burdensome search would be required to examine the various claims on the noted Groups and moreover, from the stand point of costs to the Applicant involved in filing, issuance and maintenance fees relating to separate applications. This is not found persuasive because the subcombinations are distinct and that each subcombination Group has a separate utility, as stated by the examiner filing on 06/15/07.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section

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351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 65-66 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakahara et al. (7,027,464).

As per claim 65, Nakahara et al. disclose a radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, wherein said transmitting part radio communication apparatus includes: a known reference signal insertion interval determining section that determines the insertion interval of said known reference signal; and a reporting section that reports a fact that the insertion interval of said known reference signal can be determined, together with transmission request information of said data, to said receiving part radio communication apparatus prior to transmitting said data, said transmitting part radio communication apparatus inserts said known reference signal into said data, in accordance with the insertion interval of said known reference signal determined by said known reference signal insertion interval determining section, and said transmitting part radio communication apparatus, when receiving reception preparation completion information that is a response to said transmission request information from said receiving part radio communication apparatus, determines the insertion interval of said known reference signal and transmits said data, into which said known reference signal is inserted in accordance with the insertion interval of said known reference signal, to said receiving part radio communication apparatus (fig. 1, fig. 11, col. 9/ln. 10-col. 10/ln. 16).

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As per claim 66, Nakahara et al. disclose determines the insertion interval of said known reference signal which is optimal in said data transmission (fig. 11, col. 9/ln. 10-col. 10/ln. 16).

Conclusion

- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pablo Tran whose telephone number is (571)272-7898. The examiner normal hours are 9:30 -5:00 (Monday-Friday). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571)272-7899. The fax phone number for the organization where this application or proceeding is assigned is (571)273-8300.
- 6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) System. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-directauspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PABLO N.TRAN PRIMARY EXAMINER

July 23, 2007

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